

=> fil reg

EIC Search

FILE 'REGISTRY' ENTERED AT 08:37:59 ON 15 OCT 2008

MRY

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 13 OCT 2008 HIGHEST RN 1060965-68-5

DICTIONARY FILE UPDATES: 13 OCT 2008 HIGHEST RN 1060965-68-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

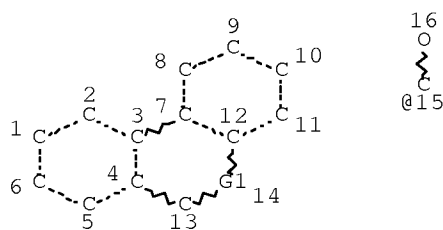
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=> d que stat l4

L3 STR



VAR G1=O/S/15/SI/N/B/P

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 16

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 16

STEREO ATTRIBUTES: NONE

L4 37276 SEA FILE=REGISTRY SSS FUL L3

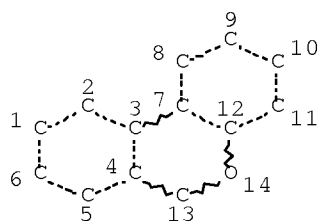
100.0% PROCESSED 1333772 ITERATIONS (3 INCOMPLETE) 37276 ANSWERS

SEARCH TIME: 00.00.14

=> d que stat l12

L12

STR



NODE ATTRIBUTES:

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CONNECT IS E2  R  AT   1
CONNECT IS E2  R  AT   2
CONNECT IS E2  R  AT   5
CONNECT IS E2  R  AT   6
CONNECT IS E2  R  AT   8
CONNECT IS E2  R  AT   9
CONNECT IS E2  R  AT  10
CONNECT IS E2  R  AT  11
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

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GRAPH ATTRIBUTES:

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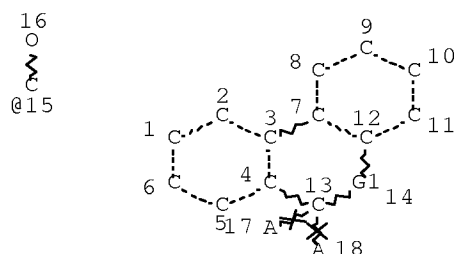
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STEREO ATTRIBUTES: NONE

=> d que stat 120

L20

STR



VAR G1=O/S/15/SI/N/B/P

NODE ATTRIBUTES:

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NSPEC   IS RC      AT  18
CONNECT IS E2  R  AT   1
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CONNECT IS E2  R  AT   6
CONNECT IS E2  R  AT   8
CONNECT IS E2  R  AT   9
CONNECT IS E2  R  AT  10
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CONNECT IS E1  RC AT  16
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

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October 15, 2008

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GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE

=> d his

(FILE 'HOME' ENTERED AT 08:18:32 ON 15 OCT 2008)

FILE 'HCAPLUS' ENTERED AT 08:19:16 ON 15 OCT 2008
E US20080138651/PN

L1 1 S E3
SEL RN

FILE 'REGISTRY' ENTERED AT 08:19:33 ON 15 OCT 2008
L2 36 S E1-36
ACT YAM937/A

L3 STR
L4 37276 SEA FILE=REGISTRY SSS FUL L3

L5 24 S L2 AND L4

FILE 'LREGISTRY' ENTERED AT 08:20:38 ON 15 OCT 2008
L6 STR L3

FILE 'REGISTRY' ENTERED AT 08:23:15 ON 15 OCT 2008
L7 50 S L6 SSS SAM SUB=L4
L8 SCR 2043
L9 6 S L6 AND L8 SSS SAM SUB=L4

FILE 'LREGISTRY' ENTERED AT 08:25:08 ON 15 OCT 2008
L10 STR L3

FILE 'REGISTRY' ENTERED AT 08:27:45 ON 15 OCT 2008
L11 7 S L10 AND L8 SSS SAM SUB=L4
L12 STR L10
L13 2 S L12 AND L8 SSS SAM SUB=L4
L14 25 S L12 AND L8 SSS FUL SUB=L4
SAV L14 YAM937S1/A
L15 12 S L2 AND L14

FILE 'HCAPLUS' ENTERED AT 08:30:13 ON 15 OCT 2008
L16 8 S L5
L17 8 S L14
L18 13 S L16 OR L17
L19 6 S L18 AND (PY<=2002 OR PRY<=2002 OR AY<=2002)

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L20 STR L10

FILE 'REGISTRY' ENTERED AT 08:33:21 ON 15 OCT 2008
L21 50 S L20 SSS SAM SUB=L4
L22 2 S L20 AND L8 SSS SAM SUB=L4
L23 30 S L20 AND L8 SSS FUL SUB=L4
SAV L23 YAM937S2/A
L24 13 S L23 NOT L14

October 15, 2008

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4

FILE 'HCAPLUS' ENTERED AT 08:35:41 ON 15 OCT 2008
L25 4 S L24
L26 1 S L25 AND (PY<=2002 OR PRY<=2002 OR AY<=2002)

=> fil hcap
FILE 'HCAPLUS' ENTERED AT 08:38:12 ON 15 OCT 2008
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FILE COVERS 1907 - 15 Oct 2008 VOL 149 ISS 16
FILE LAST UPDATED: 14 Oct 2008 (20081014/ED)

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d ibib abs hitstr hitind l19 1-6

L19 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:392502 HCAPLUS Full-text
DOCUMENT NUMBER: 140:415047
TITLE: High-molecular compounds and polymer
light-emitting devices made by using the same
INVENTOR(S): Doi, Shuji; Kobayashi, Satoshi; Noguchi,
Takanobu
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
SOURCE: PCT Int. Appl., 131 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004039859	A1	20040513	WO 2003-JP12697	20031003

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CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB,

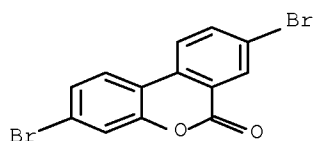
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 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL,
 SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
 ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
 BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
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 PRIORITY APPLN. INFO.: JP 2002-315516 A
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 WO 2003-JP12697 W
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 OTHER SOURCE(S): MARPAT 140:415047
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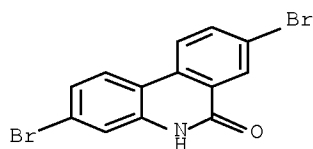
AB The invention relates to a high-mol. compds. comprising repeating units represented by the general formula I or II and having number-average mol. wts. of 103-108 in terms of polystyrene: (1) [wherein Ar1 and Ar2 are each independently a trivalent aromatic hydrocarbon group or a trivalent heterocyclic group; and X1 and X2 are each independently O, S, C(=O), S(=O), SO2, C(R1)(R2), Si(R3)(R4), N(R5), B(R6), P(R7), or P(=O)(R8), with the provisos that X1 and X2 must not be the same and that X1 and Ar2 are bonded resp. to the adjacent carbon atoms constituting the aromatic ring of Ar1, and X2 and Ar1 are bonded resp. to the adjacent carbon atoms constituting the aromatic ring of Ar2] (2) [wherein Ar3 and Ar4 are each independently a trivalent aromatic hydrocarbon group or a trivalent heterocyclic group; and X3 and X4 are each independently N, B, P, C(R9), or Si(R10), with the provisos

that X3 and X4 must not be the same and that X3 and Ar4 are bonded resp. to the adjacent carbon atoms constituting the aromatic ring of Ar3, and X4 and Ar3 are bonded resp. to the adjacent carbon atoms constituting the aromatic ring of Ar4].

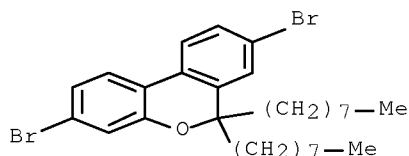
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688013-70-9P 688013-71-0P 688013-72-1P
688013-75-4P 688013-76-5P 688013-77-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT (Reactant or reagent)
(high-mol. compds. and polymer light emitting devices made by
using the same)
RN 18102-99-3 HCAPLUS
CN 6H-Dibenzo[b,d]pyran-6-one, 3,8-dibromo- (CA INDEX NAME)



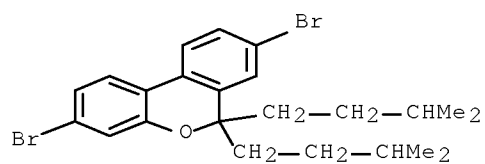
RN 23818-37-3 HCAPLUS
CN 6(5H)-Phenanthridinone, 3,8-dibromo- (CA INDEX NAME)



RN 688013-66-3 HCAPLUS
CN 6H-Dibenzo[b,d]pyran, 3,8-dibromo-6,6-dioctyl- (CA INDEX NAME)

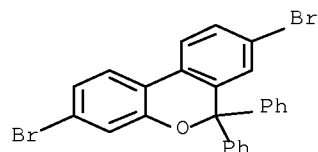


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CN 6H-Dibenzo[b,d]pyran, 3,8-dibromo-6,6-bis(3-methylbutyl)- (CA INDEX NAME)



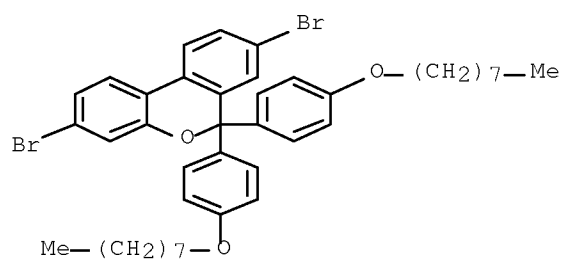
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CN 6H-Dibenzo[b,d]pyran, 3,8-dibromo-6,6-diphenyl- (CA INDEX NAME)



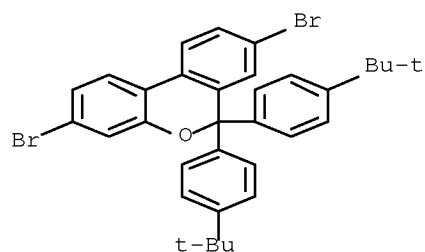
RN 688013-69-6 HCAPLUS

CN 6H-Dibenzo[b,d]pyran, 3,8-dibromo-6,6-bis[4-(octyloxy)phenyl]- (CA INDEX NAME)



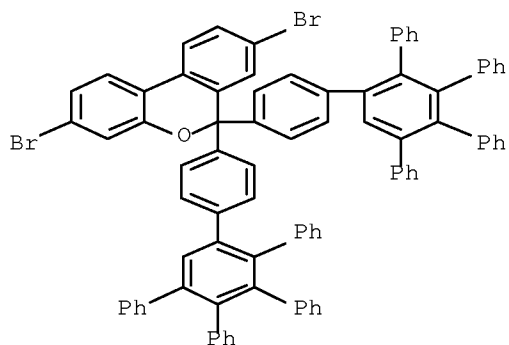
RN 688013-70-9 HCAPLUS

CN 6H-Dibenzo[b,d]pyran, 3,8-dibromo-6,6-bis[4-(1,1-dimethylethyl)phenyl]- (CA INDEX NAME)



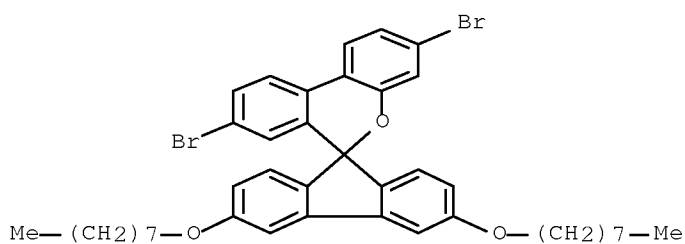
RN 688013-71-0 HCAPLUS

CN 6H-Dibenzo[b,d]pyran, 3,8-dibromo-6,6-bis(3',4',5'-triphenyl[1,1':2',1''-terphenyl]-4-yl)- (9CI) (CA INDEX NAME)



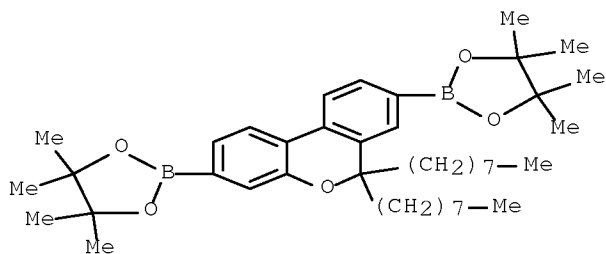
RN 688013-72-1 HCAPLUS

CN Spiro[6H-dibenzo[b,d]pyran-6,9'-[9H]fluorene],
3,8-dibromo-3',6'-bis(octyloxy)- (CA INDEX NAME)



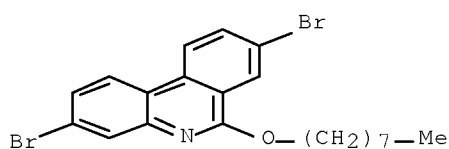
RN 688013-75-4 HCAPLUS

CN 6H-Dibenzo[b,d]pyran, 6,6-dioctyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)- (CA INDEX NAME)



RN 688013-76-5 HCAPLUS

CN Phenanthridine, 3,8-dibromo-6-(octyloxy)- (CA INDEX NAME)



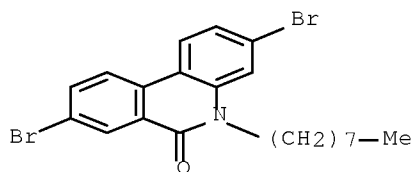
October 15, 2008

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9

RN 688013-77-6 HCAPLUS

CN 6(5H)-Phenanthridinone, 3,8-dibromo-5-octyl- (CA INDEX NAME)



IT 688013-78-7P 688013-79-8P 688013-80-1P
688013-81-2P 688013-83-4P 688013-84-5P
688013-85-6DP, p-Tolyl terminated 688013-85-6P
688013-86-7P 688013-87-8P 688013-88-9P
688013-89-0P 688013-90-3P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(high-mol. compds. and polymer light emitting devices made by using the same)

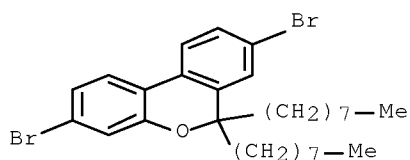
RN 688013-78-7 HCAPLUS

CN 6H-Dibenzo[b,d]pyran, 3,8-dibromo-6,6-dioctyl-, homopolymer (9CI)
(CA INDEX NAME)

CM 1

CRN 688013-66-3

CMF C29 H40 Br2 O



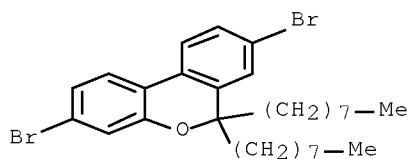
RN 688013-79-8 HCAPLUS

CN 6H-Dibenzo[b,d]pyran, 3,8-dibromo-6,6-dioctyl-, polymer with 1,4-dibromo-2,5-bis(decyloxy)benzene (9CI) (CA INDEX NAME)

CM 1

CRN 688013-66-3

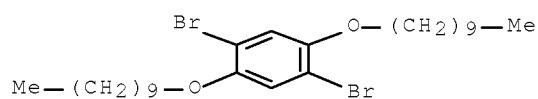
CMF C29 H40 Br2 O



CM 2

CRN 152269-98-2

CMF C26 H44 Br2 O2



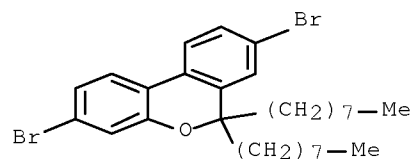
RN 688013-80-1 HCAPLUS

CN 6H-Dibenzo[b,d]pyran, 3,8-dibromo-6,6-dioctyl-, polymer with
3,7-dibromo-2,8-bis(octyloxy)dibenzothiophene (9CI) (CA INDEX NAME)

CM 1

CRN 688013-66-3

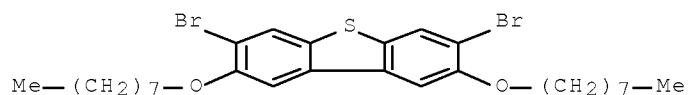
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CM 2

CRN 599212-67-6

CMF C28 H38 Br2 O2 S



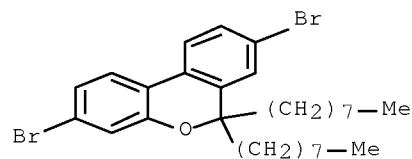
RN 688013-81-2 HCAPLUS

CN 6H-Dibenzo[b,d]pyran, 3,8-dibromo-6,6-dioctyl-, polymer with
3,7-dibromo-2,8-bis(octyloxy)dibenzofuran (9CI) (CA INDEX NAME)

CM 1

CRN 688013-66-3

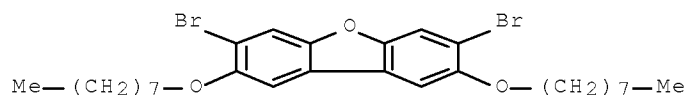
CMF C29 H40 Br2 O



CM 2

CRN 599212-92-7

CMF C28 H38 Br2 O3



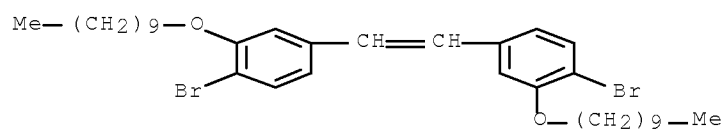
RN 688013-83-4 HCAPLUS

CN 6H-Dibenzo[b,d]pyran, 3,8-dibromo-6,6-di(7-decyloxy)-, polymer with 1,1'-(1,2-ethenediyl)bis[4-bromo-3-(decyloxy)benzene] (9CI) (CA INDEX NAME)

CM 1

CRN 688013-82-3

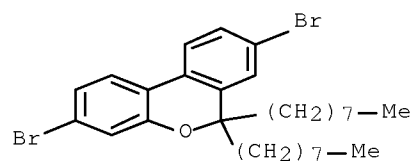
CMF C34 H50 Br2 O2



CM 2

CRN 688013-66-3

CMF C29 H40 Br2 O



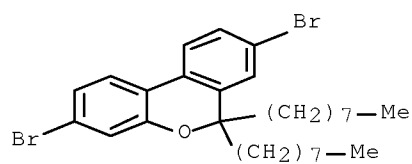
RN 688013-84-5 HCAPLUS

CN Benzenamine, N,N-bis(4-bromophenyl)-4-(1-methylpropyl)-, polymer with 3,8-dibromo-6,6-di(7-decyloxy)-6H-dibenzo[b,d]pyran (9CI) (CA INDEX NAME)

CM 1

CRN 688013-66-3

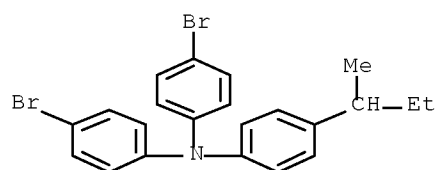
CMF C29 H40 Br2 O



CM 2

CRN 287976-94-7

CMF C22 H21 Br2 N



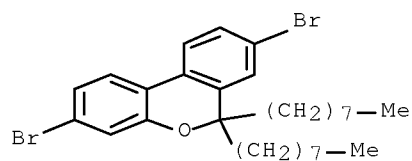
RN 688013-85-6 HCAPLUS

CN 1,4-Benzenediamine, N,N'-bis(4-bromophenyl)-N,N'-bis(4-butylphenyl)-
 , polymer with 3,8-dibromo-6,6-di(7-methyloctyl)-6H-dibenzo[b,d]pyran (9CI)
 (CA INDEX NAME)

CM 1

CRN 688013-66-3

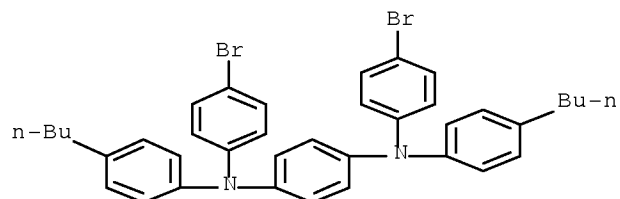
CMF C29 H40 Br2 O



CM 2

CRN 372200-89-0

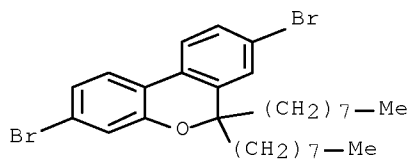
CMF C38 H38 Br2 N2



RN 688013-85-6 HCAPLUS
 CN 1,4-Benzenediamine, N,N'-bis(4-bromophenyl)-N,N'-bis(4-butylphenyl)-
 , polymer with 3,8-dibromo-6,6-dioctyl-6H-dibenzo[b,d]pyran (9CI)
 (CA INDEX NAME)

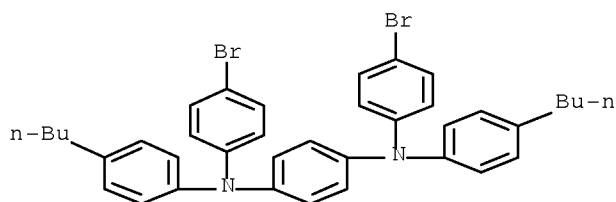
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CM 2

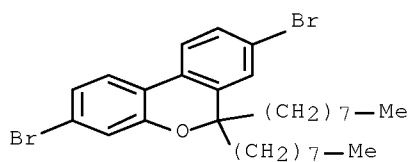
CRN 372200-89-0
 CMF C38 H38 Br2 N2



RN 688013-86-7 HCAPLUS
 CN 1,4-Benzenediamine, N,N'-bis(4-bromophenyl)-N,N'-bis(4-butylphenyl)-
 , polymer with 3,7-dibromo-2,8-bis(octyloxy)dibenzothiophene and
 3,8-dibromo-6,6-dioctyl-6H-dibenzo[b,d]pyran (9CI) (CA INDEX NAME)

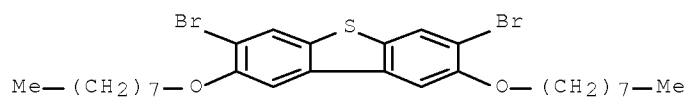
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CRN 688013-66-3
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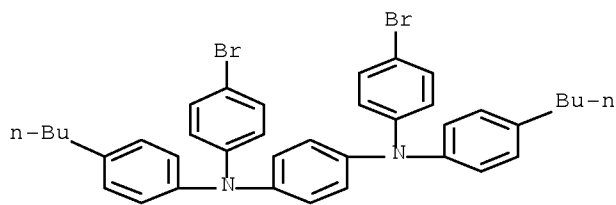
CM 2

CRN 599212-67-6
CMF C28 H38 Br2 O2 S



CM 3

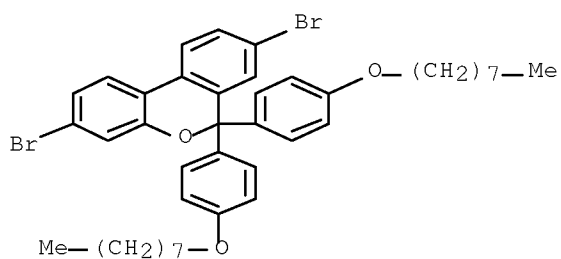
CRN 372200-89-0
CMF C38 H38 Br2 N2



RN 688013-87-8 HCAPLUS
CN 6H-Dibenzo[b,d]pyran, 3,8-dibromo-6,6-bis[4-(octyloxy)phenyl]-, homopolymer (9CI) (CA INDEX NAME)

CM 1

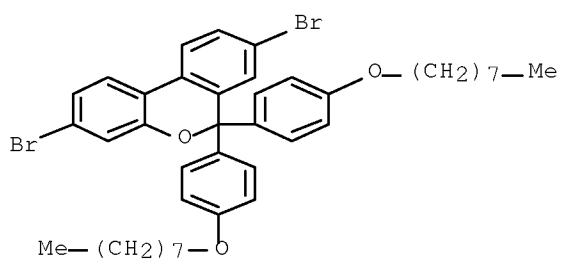
CRN 688013-69-6
CMF C41 H48 Br2 O3



RN 688013-88-9 HCAPLUS
CN 1,4-Benzenediamine, N,N'-bis(4-bromophenyl)-N,N'-bis(4-butylphenyl)-, polymer with 3,8-dibromo-6,6-bis[4-(octyloxy)phenyl]-6H-dibenzo[b,d]pyran (9CI) (CA INDEX NAME)

CM 1

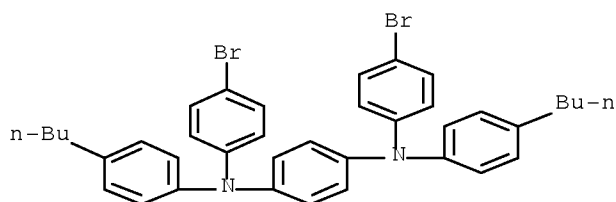
CRN 688013-69-6
CMF C41 H48 Br2 O3



CM 2

CRN 372200-89-0

CMF C38 H38 Br2 N2



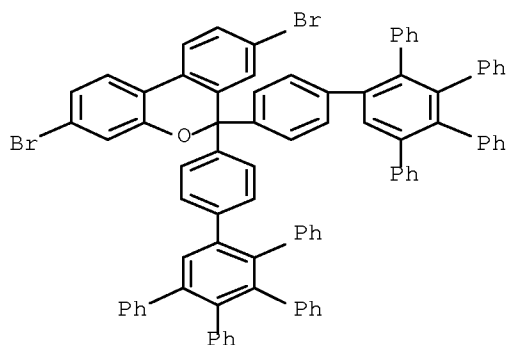
RN 688013-89-0 HCAPLUS

CN 6H-Dibenzo[b,d]pyran, 3,8-dibromo-6,6-bis(3',4',5'-
triphenyl[1,1':2',1''-terphenyl]-4-yl)-, homopolymer (9CI) (CA
INDEX NAME)

CM 1

CRN 688013-71-0

CMF C85 H56 Br2 O



RN 688013-90-3 HCAPLUS

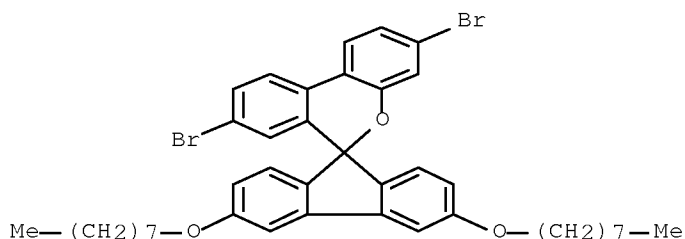
CN Spiro[6H-dibenzo[b,d]pyran-6,9'-[9H]fluorene],

3,8-dibromo-3',6'-bis(octyloxy)-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 688013-72-1

CMF C41 H46 Br2 O3



IC ICM C08G061-00

ICS C09K011-06; C09D011-00; C07C037-20; C07C039-367; H05B033-14;
H05B033-22

CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and
Other Reprographic Processes)

Section cross-reference(s): 35, 73, 76

IT 18102-99-3P 23818-37-3P 688013-65-2P

688013-66-3P 688013-67-4P 688013-68-5P

688013-69-6P 688013-70-9P 688013-71-0P

688013-72-1P 688013-75-4P 688013-76-5P

688013-77-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT (Reactant or reagent)

(high-mol. compds. and polymer light emitting devices made by
using the same)

IT 688013-78-7P 688013-79-8P 688013-80-1P

688013-81-2P 688013-83-4P 688013-84-5P

688013-85-6DP, p-Tolyl terminated 688013-85-6P

688013-86-7P 688013-87-8P 688013-88-9P

688013-89-0P 688013-90-3P

RL: SPN (Synthetic preparation); TEM (Technical or engineered
material use); PREP (Preparation); USES (Uses)

(high-mol. compds. and polymer light emitting devices made by
using the same)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN
THE RE FORMAT

L19 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:794902 HCAPLUS Full-text

DOCUMENT NUMBER: 123:183661

ORIGINAL REFERENCE NO.: 123:32405a,32408a

TITLE: Functional thin film, production and application
thereof

INVENTOR(S): Saji, Tetsuo

PATENT ASSIGNEE(S): Dainichiseika Color Chem., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 41 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
JP 07062594	A	19950307	JP 1993-234301	199308 27
			<--	
JP 2825424	B2	19981118	JP 1993-234301	199308 27
PRIORITY APPLN. INFO.:				

AB The title film, useful for a color filter, electrophotog. device, photosensor, solar cell, electroluminescence device, optical recording device, optical nonlinear device, optoelectronic device, photochromic film, electrochromic film, gas sensor and ion sensor, is prepared by an electrochem. reduction of a surfactant containing an aromatic azo residue, dispersed in a water or water containing solvent. The title method requires min. or zero use of binder resin.

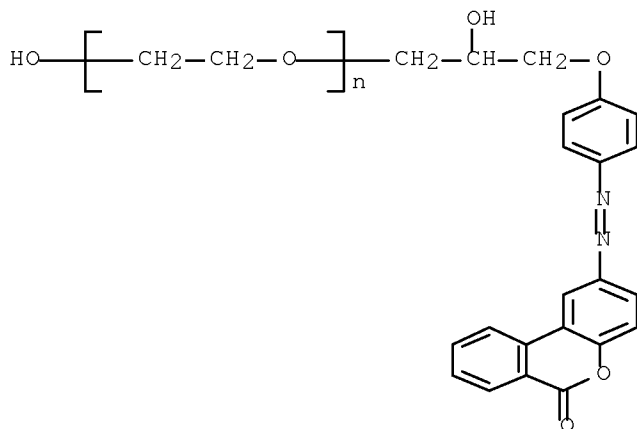
IT 167856-97-5

RL: DEV (Device component use); USES (Uses)

(functional thin film prepared by photochem. reduction of surfactant containing aromatic azo residue)

RN 167856-97-5 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -[2-hydroxy-3-[4-[(6-oxo-6H-dibenzo[b,d]pyran-2-yl)azo]phenoxy]propyl]- ω -hydroxy- (9CI)
(CA INDEX NAME)



IC ICM C25D009-08

ICS C25D013-04; G01N027-12; G01N027-333; G02B005-20; G02F001-15; G02F001-155; G02F001-17; G03G005-06; G11B007-26; H01L031-04

CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 52, 72, 73, 76

IT 156461-29-9	156461-30-2	167856-77-1	167856-78-2	167856-79-3
167856-80-6	167856-81-7	167856-82-8	167856-83-9	167856-84-0
167856-85-1	167856-86-2	167856-87-3	167856-88-4	167856-89-5
167856-90-8	167856-91-9	167856-92-0	167856-93-1	167856-94-2

167856-95-3	167856-96-4	167856-97-5	167856-98-6	
167856-99-7	167857-00-3	167857-01-4	167857-02-5	167857-03-6
167857-04-7	167857-05-8	167857-06-9	167857-07-0	167857-08-1
167857-09-2	167857-10-5	167857-11-6	167857-12-7	167857-13-8
167857-14-9	167857-15-0	167857-16-1	167857-17-2	167857-18-3
167857-19-4	167857-20-7	167857-21-8	167857-22-9	167857-23-0
167857-24-1	167857-25-2	167857-26-3	167857-27-4	167857-28-5
167857-29-6	167857-30-9	167857-31-0	167857-32-1	167857-33-2
167857-34-3	167857-35-4	167857-36-5	167857-37-6	167857-38-7
167857-39-8	167857-40-1	167857-41-2	167857-42-3	167857-43-4
167857-44-5	167857-45-6	167857-46-7	167857-47-8	167857-48-9
167857-49-0	167857-50-3	167857-51-4	167857-52-5	167857-53-6
167857-54-7	167857-55-8	167857-56-9	167857-57-0	167857-58-1
167857-59-2	167857-60-5	167857-61-6	167857-62-7	167857-63-8
167857-64-9	167857-65-0	167857-66-1	167857-67-2	167857-68-3
167857-69-4	167857-70-7	167857-71-8	167857-72-9	167857-73-0
167857-74-1				

RL: DEV (Device component use); USES (Uses)

(functional thin film prepared by photochem. reduction of surfactant containing aromatic azo residue)

L19 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1991:409541 HCAPLUS Full-text

DOCUMENT NUMBER: 115:9541

ORIGINAL REFERENCE NO.: 115:1859a,1862a

TITLE: Structural effects in the formation of
intermolecular charge-transfer polymer complexes

AUTHOR(S): Tkachev, A. V.; Tverskoi, V. A.; Zubov, V. P.

CORPORATE SOURCE: Mosk. Inst. Tonkoi Khim. Tekhnol., Moscow, USSR

SOURCE: Vysokomolekulyarnye Soedineniya, Seriya A (
1991), 33(2), 270-4
CODEN: VYSAAF; ISSN: 0507-5475

DOCUMENT TYPE: Journal

LANGUAGE: Russian

AB Formation and structure of charge-transfer complexes of
dinitrodibenzopyranonyl group-containing Me hydroxypropyl siloxanes and
dinitrofluorenyl group-containing polymethacrylates with N-ethylcarbazole,
poly(N-vinylcarbazole), and poly(N-epoxypropylcarbazole) was studied. In all
cases complexes of the 1:1 composition were formed. The stability of the
complexes depended on the structure of the macromol. chains, on the content of
acceptor groups, and on the concentration and structure of the shielding
groups. The comparison with complexes of low-mol.-weight model compds. was
made.

IT 133959-56-5P 133977-15-8P

RL: PREP (Preparation)
(formation and structure of)

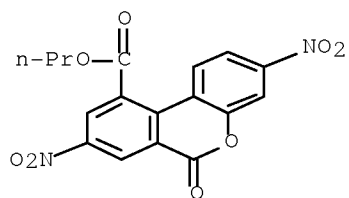
RN 133959-56-5 HCAPLUS

CN 6H-Dibenzo[b,d]pyran-10-carboxylic acid, 3,8-dinitro-6-oxo-, propyl
ester, compd. with 9-(oxiranylmethyl)-9H-carbazole homopolymer (9CI)
(CA INDEX NAME)

CM 1

CRN 133959-55-4

CMF C17 H12 N2 O8



CM 2

CRN 55774-96-4

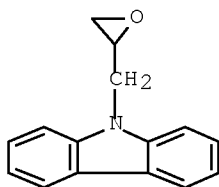
CMF (C15 H13 N O) x

CCI PMS

CM 3

CRN 52131-82-5

CMF C15 H13 N O



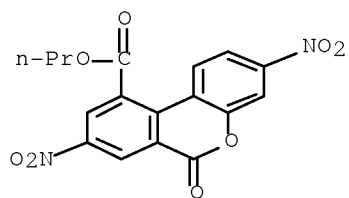
RN 133977-15-8 HCAPLUS

CN 6H-Dibenzo[b,d]pyran-10-carboxylic acid, 3,8-dinitro-6-oxo-, propyl ester, compd. with 9-ethenyl-9H-carbazole homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 133959-55-4

CMF C17 H12 N2 O8



CM 2

CRN 25067-59-8

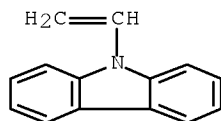
CMF (C14 H11 N) x

CCI PMS

CM 3

CRN 1484-13-5

CMF C14 H11 N



CC 35-8 (Chemistry of Synthetic High Polymers)

IT 86-28-2DP, N-Ethylcarbazole, charge-transfer complexes with hydroxypropyl Me, nitrodibenzopyranonyl group-containing siloxanes 25067-59-8DP, Poly(N-vinylcarbazole), charge-transfer complexes with hydroxypropyl Me, nitrodibenzopyranonyl group-containing siloxanes 55774-96-4DP, Poly(N-epoxypropylcarbazole), charge-transfer complexes with hydroxypropyl Me, nitrodibenzopyranonyl group-containing siloxanes 124959-80-4DP, reaction products with hydroxypropyl Me siloxanes, charge-transfer complexes with carbazole group-containing compds. 133959-56-5P 133959-58-7P 133959-59-8P 133959-62-3P 133977-15-8P 134072-43-8P 134072-44-9P 134096-78-9P 134096-79-0P 134096-80-3P 134096-81-4P 134096-82-5P 134288-45-2P 134288-62-3P 134288-63-4P 134288-64-5P

RL: PREP (Preparation)

(formation and structure of)

L19 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1970:435200 HCAPLUS Full-text

DOCUMENT NUMBER: 73:35200

ORIGINAL REFERENCE NO.: 73:5833a,5836a

TITLE: 6(5H)-phenanthridinones. III.
Halo-6(5H)phenanthridinones(1,2)

AUTHOR(S): Pan, Hsi-Lung; Fletcher, T. Lloyd

CORPORATE SOURCE: Sch. of Med., Univ. of Washington, Seattle, WA,
USA

SOURCE: Journal of Heterocyclic Chemistry (1970
, 7(3), 597-605

CODEN: JHTCAD; ISSN: 0022-152X

DOCUMENT TYPE: Journal

LANGUAGE: English

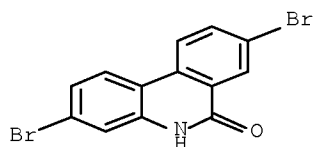
AB Halogenation of 6(5H)-phenanthridinone or its 3,8-dihalo derivs. with N-bromo- or N-chlorosuccinimide in DMF gives the corresponding 2-halophenanthridinones. Further halogenation of 2-halo-6(5H)-phenanthridinone with the appropriate N-halosuccinimide, in the same medium, gives the corresponding 2,4-dihalo derivs. 1,3,8-Trihalo-6(5H)-phenanthridinones are prepared from the 1-nitro derivs., which are obtained by a Schmidt rearrangement of 2,7-dihalo-4-nitro-9-oxofluorenes. Similarly, rearrangement and further reaction of 2-nitro-5-chloro-9-oxofluorene leads to 3,10-dichloro-6(5H)-phenanthridinone.

IT 23818-37-3F

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 23818-37-3 HCAPLUS

CN 6(5H)-Phenanthridinone, 3,8-dibromo- (CA INDEX NAME)



CC 27 (Heterocyclic Compounds (One Hetero Atom))

IT 6955-64-2P 22771-43-3P 23818-35-1P 23818-37-3P
23818-38-4P 23818-40-8P 23818-41-9P 23818-43-1P 23818-44-2P
23827-02-3P 23827-03-4P 27282-46-8P 27353-44-2P 27353-46-4P
27353-47-5P 27353-48-6P 27353-49-7P 27353-50-0P 27353-51-1P
27353-52-2P 27353-53-3P 27353-54-4P 27353-55-5P 27353-56-6P
27353-57-7P 27353-58-8P 27353-59-9P 27353-61-3P 27353-62-4P
27353-63-5P 27375-01-5P 27375-02-6P 27375-03-7P 27375-04-8P
27375-05-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

L19 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1969:491236 HCAPLUS Full-text

DOCUMENT NUMBER: 71:91236

ORIGINAL REFERENCE NO.: 71:16971a,16974a

TITLE: Derivatives of fluorene. XXX. Rearrangement
and antitumor activities of some 9-oxofluorene
oximes. 6(5H)-phenanthridinones. 1

AUTHOR(S): Pan, Hsi-Lung; Fletcher, T. Lloyd

CORPORATE SOURCE: Sch. of Med., Univ. of Washington, Seattle, WA,
USA

SOURCE: Journal of Medicinal Chemistry (1969),
12(5), 822-5
CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal

LANGUAGE: English

GI For diagram(s), see printed CA Issue.

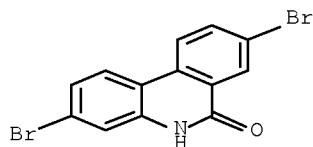
AB Rearrangement of 9-oxofluorene oximes in polyphosphoric acid (PPA) to the
corresponding 6(5H)-phenanthridinones (I) is described. Reaction of 1-iodo-
and 1-nitro-9-oxofluorene oxime with PPA gave, instead of the expected
phenanthridinones, the corresponding 9-oxofluorenes. Results of screening for
antitumor activities are presented.

IT 23818-37-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 23818-37-3 HCAPLUS

CN 6(5H)-Phenanthridinone, 3,8-dibromo- (CA INDEX NAME)



CC 27 (Heterocyclic Compounds (One Hetero Atom))

IT 22771-43-3P 22771-52-4P 22771-53-5P 22771-54-6P 22771-55-7P
22860-48-6P 23818-21-5P 23818-23-7P 23818-24-8P 23818-25-9P

23818-26-0P 23818-28-2P 23818-29-3P 23818-30-6P 23818-31-7P
23818-34-0P 23818-35-1P 23818-37-3P 23818-38-4P
23818-39-5P 23818-40-8P 23818-41-9P 23818-42-0P 23818-43-1P
23818-44-2P 23827-02-3P 23827-03-4P 23842-56-0P 23842-57-1P
23842-58-2P 23842-59-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

L19 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1968:104896 HCAPLUS Full-text

DOCUMENT NUMBER: 68:104896

ORIGINAL REFERENCE NO.: 68:20235a,20238a

TITLE: Persulfate oxidation of carboxylic acids. III.
Oxidation of cis-cinnamic and
biphenyl-2-carboxylic acids

AUTHOR(S): Brown, Patricia Margaret; Russell, James;
Thomson, Ronald H.; Wylie, A. G.

CORPORATE SOURCE: Univ. Aberdeen, Aberdeen, UK

SOURCE: Journal of the Chemical Society [Section] C:
Organic (1968), (7), 842-8
CODEN: JSOOAX; ISSN: 0022-4952

DOCUMENT TYPE: Journal

LANGUAGE: English

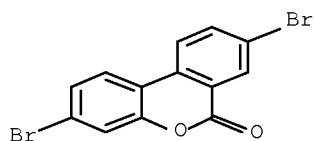
AB 3,4-Benzocoumarins were obtained by oxidative cyclization of biphenyl-2-carboxylic acids. The parent benzocoumarin was also formed by oxidation of 2'-substituted acids with elimination of the substituent (OMe, NO₂, and CO₂H and in low yield Me and Cl) but 2'-benzoylbiphenyl-2-carboxylic acid gave 5-benzoyl-3,4-benzocoumarin and 2'-cyanobiphenyl-2-carboxylic acid yielded fluorenone and phenanthridine-1,10-carbolactone. Similar oxidns. of cis-cinnamic acids gave poor yields of coumarins, markedly increased by the presence of an o-methoxy group. The mechanisms of these reactions are discussed. 47 references.

IT 18102-99-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 18102-99-3 HCAPLUS

CN 6H-Dibenzo[b,d]pyran-6-one, 3,8-dibromo- (CA INDEX NAME)



CC 27 (Heterocyclic Compounds (One Hetero Atom))

IT 486-25-9P 4733-28-2P 7079-15-4P 7111-77-5P 14498-95-4P

18102-99-3P 18110-71-9P 18110-73-1P 18110-74-2P

18110-75-3P 18110-76-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

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L26 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN

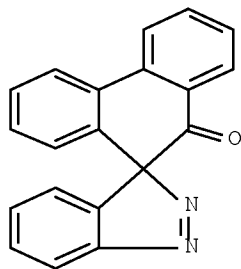
ACCESSION NUMBER: 1973:453226 HCAPLUS Full-text

DOCUMENT NUMBER: 79:53226

ORIGINAL REFERENCE NO.: 79:8591a,8594a
TITLE: Rearrangement, extrusion, and polymerization
reactions upon addition of acetylenes to
3-diazoindole and six-membered ring
 α -diazo ketones
AUTHOR(S): Yamazaki, Tsuneyoshi; Shechter, Harold
CORPORATE SOURCE: Dep. Chem., Ohio State Univ., Columbus, OH, USA
SOURCE: Tetrahedron Letters (1973), (16),
1417-20
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB The diazoindolone (I) with benzyne gave the indazole (II) by rearrangement of
the spiro intermediate (III). I reacted similarly with MeO2CC.tplbond.CCO2Me.
9,10-Dihydro-10-diazo-9-phenanthrone (IV) and 2-diazocyclohexanone (V) also
underwent cycloaddn. with benzyne. IV gave a stable spiroindazole, whereas
the compound isolated from the reaction with V was a dimer of the
spiroindazole rearrangement product.
IT 41976-17-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 41976-17-4 HCAPLUS
CN Spiro[3H-indazole-3,9'-(10'H)-phenanthren]-10'-one, homopolymer (9CI)
(CA INDEX NAME)

CM 1

CRN 41940-29-8
CMF C20 H12 N2 O



CC 28-9 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 24, 26, 27
IT 201-68-3P 41940-20-9P 41940-21-0P 41940-23-2P 41940-24-3P
41940-25-4P 41940-26-5P 41940-27-6P 41940-29-8P 41940-31-2P
41940-32-3P 41940-33-4P 41940-35-6P 41940-36-7P
41976-17-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

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